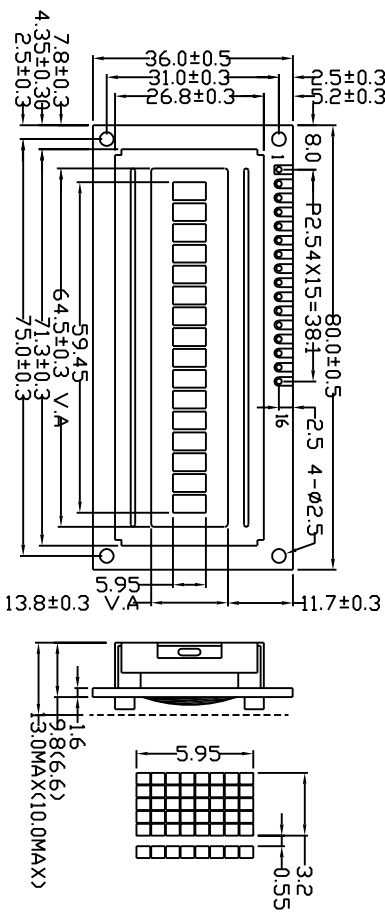


# LCD-DISPLAY YM-1601A Series

16X1 CHARACTERS  
1/16 DUTY, 1/5 BIAS

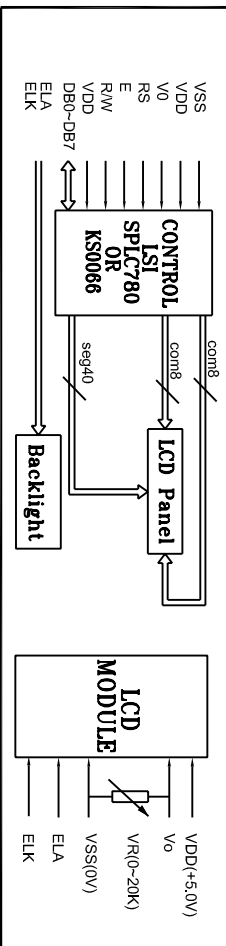
## OUTLINE DIMENSIONS



Unmarked tolerance: x.xx±0.20  
x.x±0.3

WHIT EL B/L WHIT LED B/L  
WITHOUT B/L

## BLOCK DIAGRAM & POWER SUPPLY



## MECHANICAL SPECIFICATION & FEATURE

Item	Normal Dimensions(mm)	FEATURE
Module Size(W×H×T)	80.0X38.0X1.0(0.13.0)	STN, TN, HTN, FSTN
View Area(W×H)	64.5X13.8	STN:Yellow-Green Grey Other:Gray
Character Pitch(W×H)	3.75X3.95	6 O'Clock 12 O'Clock
Character size(W×H)	3.2X3.95	Positive Type Negative Type
Character Font	5X8	Real polarizer Reflective Transflective
Dot Pitch(W×H)	0.65X0.75	Operating Temperature -10°C-60°C, -20°C-70°C
Dot Size(W×H)	0.60X0.70	Backlight LED:Yellow EL:Green,Blue-Green,Blue Without

## ELECTRICAL CHARACTERISTICS

Item	Symbol	Symbol	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25°C	---	5.0	---	V
Operating Voltage LCD	Vlcd	Ta=25°C	---	4.7	---	V
Supply Current	Idd	Ta=25°C, Vdd=5.0V	---	2.0	3.0	mA
Supply Current for Backlight	If	Ta=25°C, Vb=4.2V	---	---	---	mA

## INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Level	Description
1	VSS	---	Ground for Logic
2	VDD	---	Power supply for Logic(+5.0V)
3	V0	---	Power supply for LCD drive
4	RS	H/L	Register selection (H:DATA register, L:Instruction register)
5	R/W	H/L	Read/Write selection (H:Read, L:Write)
6	E	H/L	Enable signal for LCM
7-14	D80-DB7	H/L	Data Bus Lines
15	A	---	Backlight(+5.0V)
16	K	---	Backlight(0V)

## REMARK

Operating voltage option : 5.0V or 3.0V  
CGROM font option : English Japanese Russian etc